

United States
Department of
Agriculture

Forest
Service

Northeastern Area
State & Private
Forestry

180 Canfield Street
Morgantown, WV 26505

Reply To: 3460/3410

Date: January 7, 1994

NPS
MD, PA
Catawba
map

David Reynolds, IPM Specialist
USDI National Park Service
Mid-Atlantic Region
143 South Third Street
Philadelphia, PA 19106

Dear Mr. Reynolds:

Summaries of the 1983-1993 gypsy moth trapping program conducted at Assateague Island National Seashore, Fort Necessity National Battlefield, and Friendship Hill National Historical Site are enclosed for your information (Table 1). Also enclosed are maps (Figures 1-5) showing the trap locations at each site. The purpose of the program is to monitor low level gypsy moth populations and to help us determine when more intensive survey methods such as egg mass surveys should be employed.

Gypsy moth catches at Fort Necessity NB and Friendship Hill NHS averaged 828 and 399 moths per trap, respectively. This is an increase from last year's results of an average of 292 moths per trap at Fort Necessity NB and 207 moths per trap at Friendship Hill NHS. An egg mass survey was conducted by USDA Forest Service personnel at Fort Necessity NB in August 1993. (See Egg Mass Survey Report dated 9/7/93.) Since egg mass surveys are conducted annually, and the area around these two sites is generally infested with gypsy moths, future gypsy moth trapping is not necessary for our purposes. However, we will continue to support resource managers at Fort Necessity NB and Friendship Hill NHS if they would like to continue trapping at their sites.

Gypsy moth catches at Assateague Island National Seashore averaged 1217 moths per trap (range = 1052-1587), a significant increase from an average of 60 moths per trap (range = 0-227) last year. We believe that the majority of the trapped moths originated from the mainland of the Eastern Shore of Maryland. Trapping is no longer necessary for our purpose. However, Carl Zimmerman, the Chief of Resource Management, expressed an interest in continuing the trapping program for the next several years. Our office is aware of this interest and we will be more than happy to continue to support the trapping program at Assateague.



Thank you for your continued cooperation and if you have any questions regarding these results, please call me at (304) 285-1556.

Sincerely,



KAREN D. FELTON
Biological Technician
Forest Health Protection

Enclosures

cc: A0

Marilyn Paris, Fort Necessity & Friendship Hill
Chuck Smith, Fort Necessity
Robert Tichenor, MDA
Larry Rhoads, PDER
Carl Zimmerman, Assateague Island

KDF/mae

Table 1.--Summary of the 1983-1993 gypsy moth trapping program at three USDI National Park Service sites, Mid-Atlantic Region.

Assateague Island National Seashore (Worchester County, MD)

<u>Year</u>	<u>Number of Traps</u>	<u>Total Moths Caught</u>	<u>Positive Catch Trap Number</u>
1983	10	130	All except 10
1984	10	75	All except 10
1985	10	81	All except 10
1986	10	317	All except 8
1987	10	35	All except 8
1988	10	183	All
1989	10	212	All except 7
1990	10	622	?
1991	10	475	All
1992	10	602	All except 1,2,6,7
1993	10	12,169	All

Fort Necessity National Battlefield (Fayette County, PA)

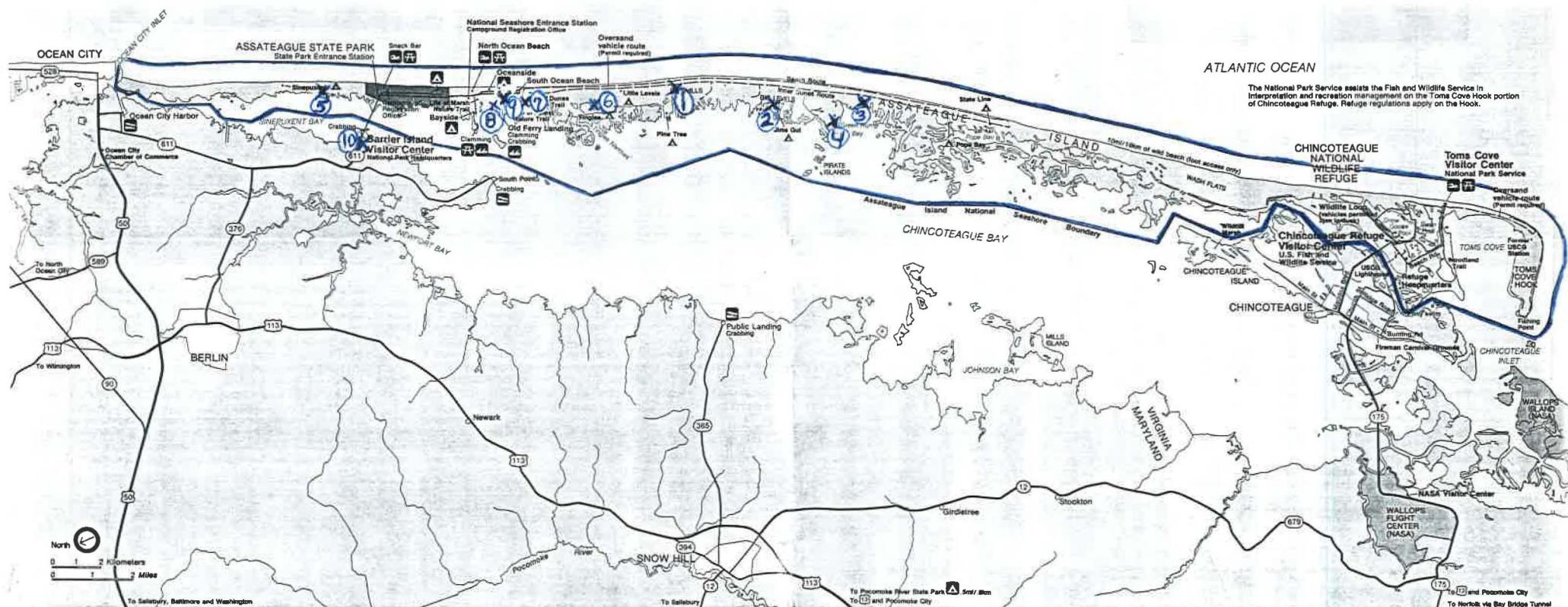
<u>Year</u>	<u>Number of Traps</u>	<u>Total Moths Caught</u>	<u>Positive Catch Trap Number</u>
1983	5	170	All
1984	5	335	All
1985	7	670	All
1986			Traps not returned
1987	30	6451	All except FF11
1988	23	16,054	All
1989	?	37,316	Unknown
1990			Data unknown
1991	4	1051	All
1992	14	2914	All except 3,6,7,14
1993	15	12,425	All

Friendship Hill National Historic Site (Fayette County, PA)

<u>Year</u>	<u>Number of Traps</u>	<u>Total Moths Caught</u>	<u>Positive Catch Trap Number</u>
1983	5	2	2
1984	5	2	All
1985	5	5	1,2,5
1986	9	25	All
1987	8	14	4,7,8
1988	8	58	All except 8
1989	8	1900	All
1990	8	1522	All
1991	8	3238	All
1992	10	1448	All except 1,3,4
1993	10	3992	All except 1

Figure 1.--1993 gypsy moth trap locations.

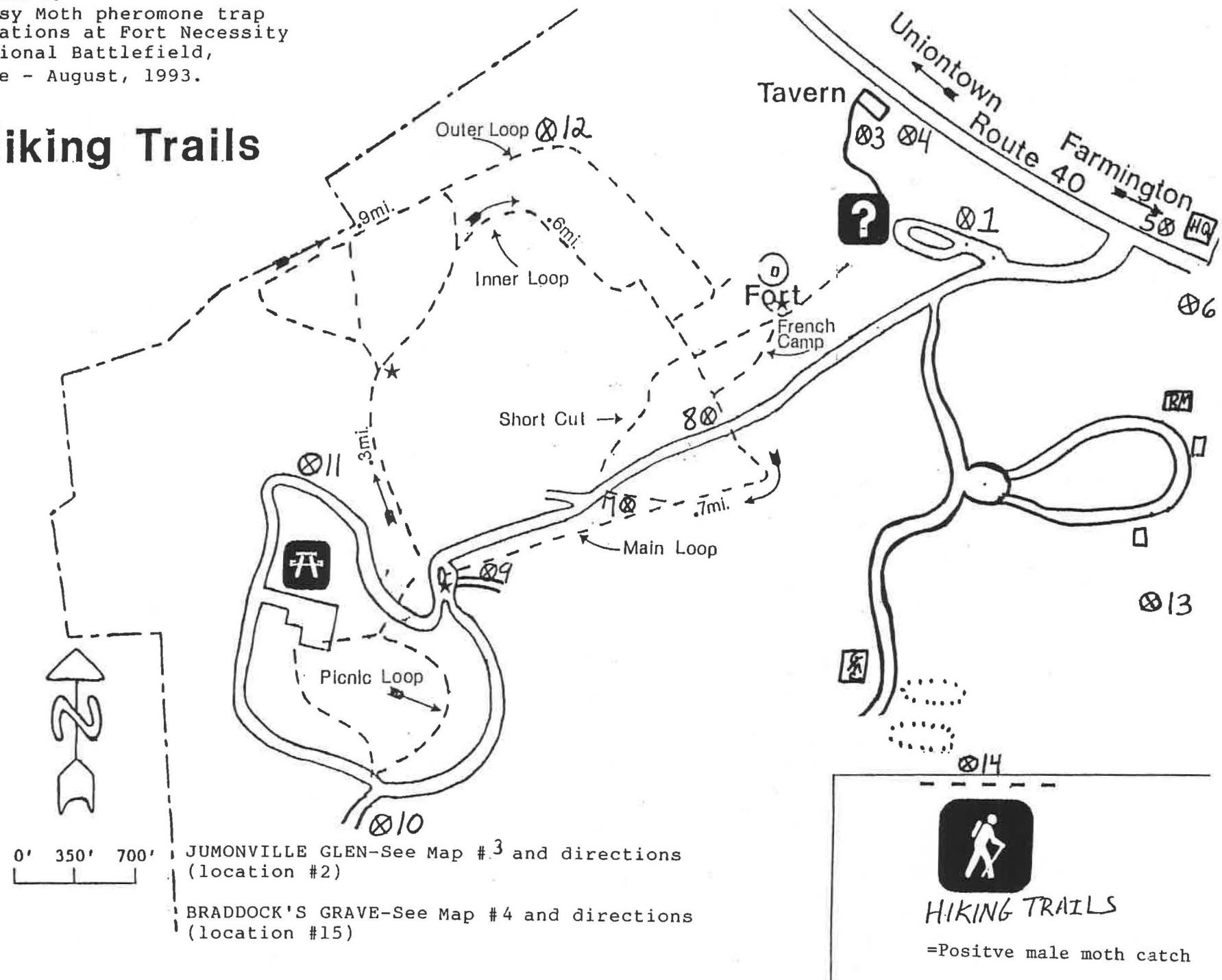
ASSATEAGUE ISLAND NATIONAL SEASHORE



=Positive male moth catch

Figure 2.--
Gypsy Moth pheromone trap
locations at Fort Necessity
National Battlefield,
June - August, 1993.

Hiking Trails

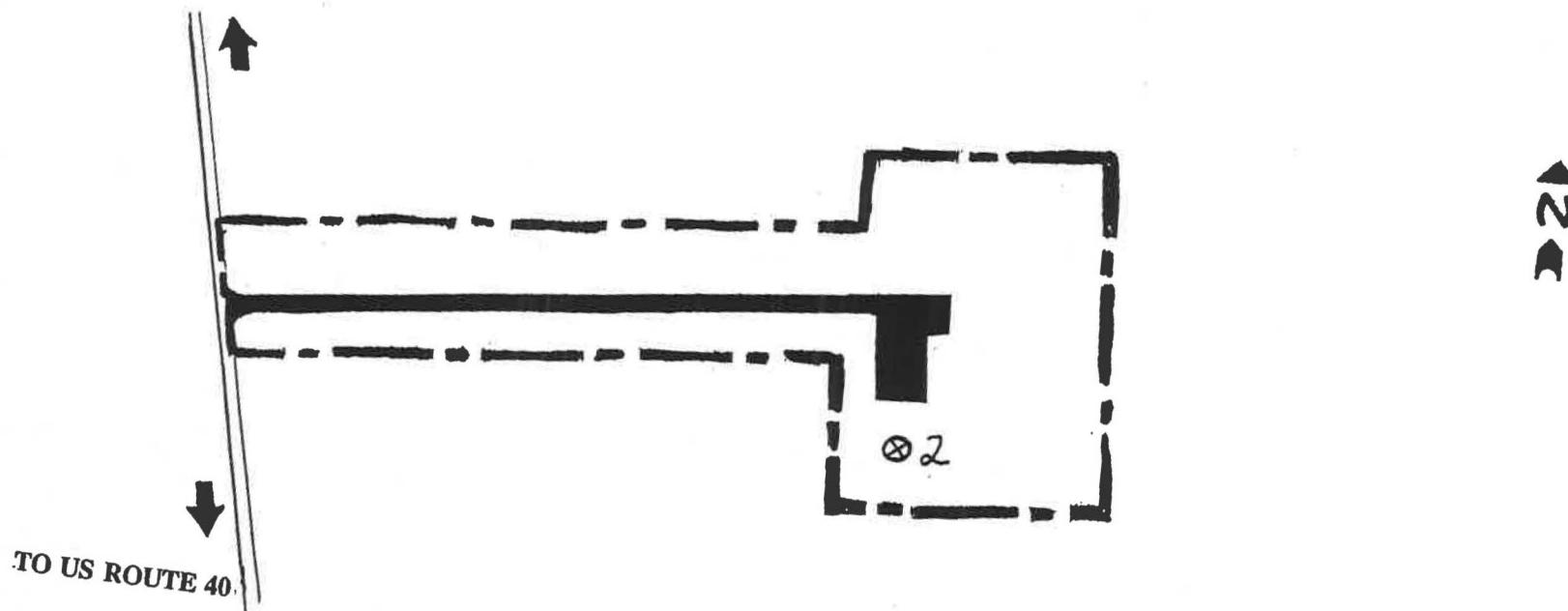


MAP # 3

JUMONVILLE GLEN AREA
Fort Necessity National Battlefield

Figure 3.--
Gypsy Moth pheromone trap
location at Jumonville Glen
June - August, 1993.

TO JUMONVILLE



=Positive male moth catch

MAP #4

BRADDOCKS GRAVE

Fort Necessity National Battlefield

Figure 4.--
Gypsy Moth pheromone trap
location at Braddock's Grave
June - August, 1993.

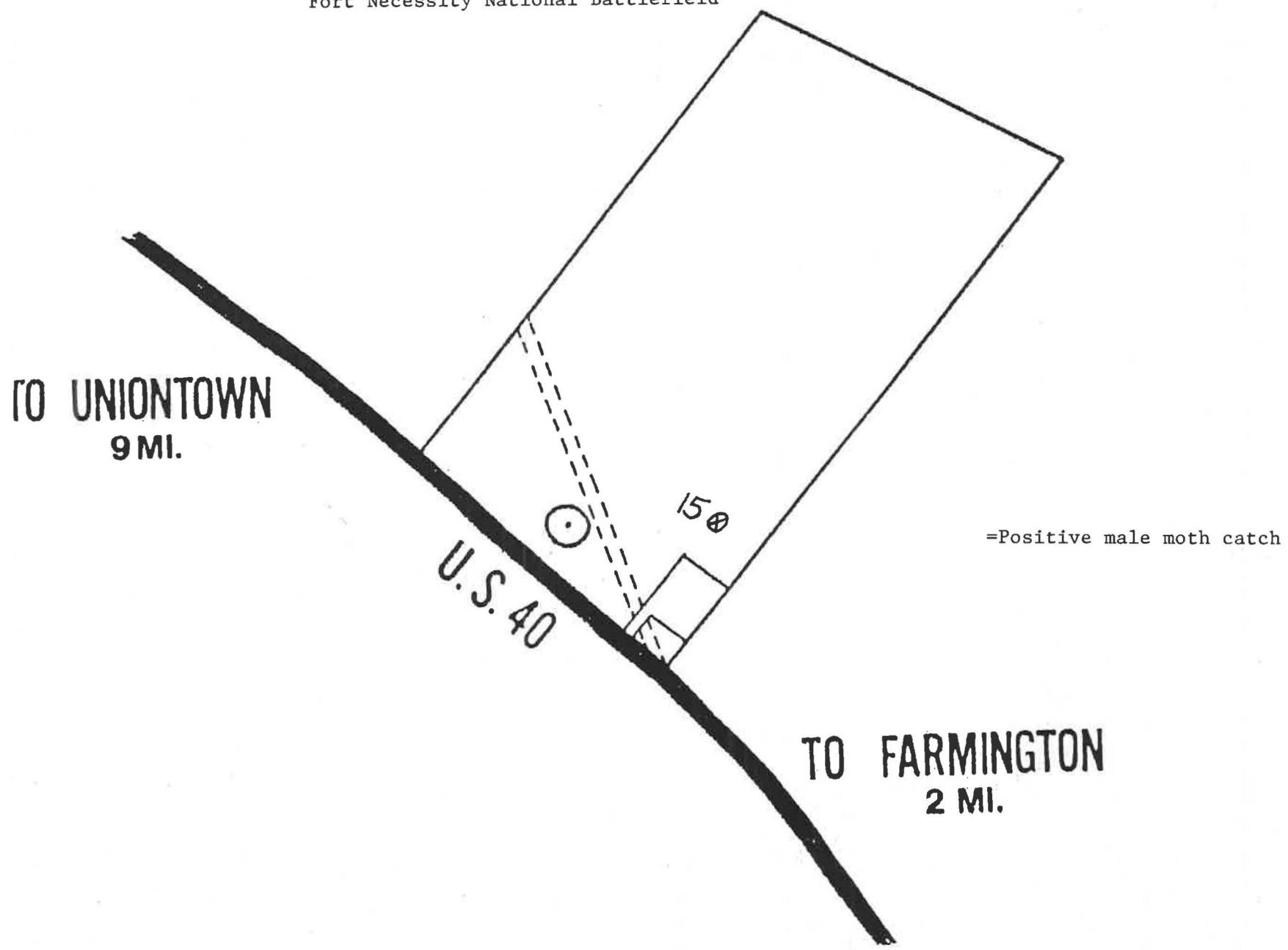


Figure 5.--Gypsy Moth pheromone trap locations
at Friendship Hill National Historic Site during
June - August, 1993.

